Directed® AUDIO

OWNER'S MANUAL

model *s800*

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CONGRATULATIONS

Congratulations for choosing a Directed Studio neodymium component speaker system from Directed Electronics.

Directed Electronics has been the industry leader in high-quality automotive security and audio equipment since 1990, and with the introduction of the Directed Studio line of high-quality loudspeakers for the automobile, Directed continues to set new standards of performance, reliability, and affordability in the mobile electronics industry.

Featuring injection-molded fiberglass reinforced baskets with graphite injected cones and neodymium motors, the Directed Studio line of automotive speakers will excite and delight the auto sound enthusiast with years of high quality audio reproduction.

Directed Studio speakers are covered by a two-year limited warranty. Be sure to retain your original sales receipt, and refer to the warranty section of this guide for full details about your coverage.

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LIMITED TWO-YEAR CONSUMER WARRANTY

Directed Electronics, Inc. (DEI) promises to the original purchaser, to replace this product should it prove to be defective in workmanship or material under normal use, for a period of two years from the date of purchase from the dealer as indicated by the date code marking of the product PROVIDED the product was installed by an authorized Directed dealer. During this two-year period, there will be no charge for this replacement PROVIDED the unit is returned to DEI, shipping pre-paid. If the unit is installed by anone other than an authorized Directed dealer, the warranty period will be one year from the date of purchase by the dealer as indicated by the date code marking of the product. This warranty is non-transferable and does not apply to any unit that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the unit caused by installation or removal of the unit. During this one-year period, there will be no charge for this replacement PROVIDED the unit is returned to DEI, shipping pre-paid. This warranty is void if the product has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in materials or construction. Units which are found to be damaged by abuse resulting in thermally damaged voice coils are not covered by this warranty but may be replaced at the absolute/sole discretion of DEI. ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DEI NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DEI HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. Unit must be returned to DEI, postage pre-paid, with bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number, and address, authorized dealer's name and address, and product description. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR UNIT MUST BE SHIPPED WITH PROOF OF INSTALLATION BY AN AUTHORIZED DEI DEALER. ALL UNITS RECEIVED BY DEI FOR WARRANTY REPAIR WITHOUT PROOF OF DEI DEALER INSTALLATION WILL BE COVERED BY THE LIMITED 1 YEAR PARTS AND LABOR WARRANTY. Note: This warranty does not cover labor costs for the removal and reinstallation of the unit. BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND Directed SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.

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FEATURES

- Exclusive Directed custom cast aluminum frame.
- Rugged Santoprene surround.
- Multi-layered mica filled low resonance 0.7mm polypropylene cone.
- Powerful 140 gram neodymium magnets deliver lower distortion and higher efciency.
- Optimized mechanical compliance with use of custom flat spider.
- 1-1/2 inch four layer voice coil for increased power handling.
- Heavy duty gold-plated three way binding posts.
- Tuned to deliver optimum mid-bass response for up front bass.
- Outboard passive crossovers support three way system design.
- Custom impedance and frequency matched crossover network.

WARNING

High-powered car audio systems may produce sound pressure levels that exceed the threshold at which hearing loss may result. They may also impair a driver's ability to hear traffic sounds or emergency vehicles. Use common sense and practice safe listening habits when listening to or adjusting your audio system.

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SOUND QUALITY

Obtaining the highest quality sound reproduction in the mobile environment requires installation techniques and knowledge of vehicle interiors that go far beyond simple replacement of stock speakers. Speaker location, orientation, phasing, and the vehicles interior materials are important considerations when designing and installing an auto sound system.

To achieve the best sound quality possible from your Directed Audio loudspeakers, Directed recommends the installation be performed by an MECP certified technician.

INSTALLATION PRECAUTIONS

The Directed s800 neodymium midbass are designed for installation into factory speaker locations, custom mounting enclosures or any flat mounting surface inside the vehicle with sufficient rear clearance. The following precautions and instructions cover the basic and most common types of installation.

- Check behind panels for clearance of metal brackets, hoses, and wire harnesses before making any cuts.
- When mounting speakers into doors, roll the window up and down to check clearance of the glass and window regulator.
- Make sure the mounting holes are the correct size for the speaker. Undersized holes can cause speaker distortion or shorting of the speaker leads to the chassis ground. Oversized holes will not allow the mounting screws to make sufficient contact with the panel, allowing the speaker to become loose.
- Always protect the wires when routing by avoiding sharp metal edges, moving parts such as heater or vent controls, clutch pedals, brake pedals, steering columns, and power window motors and gears.
- When routing wires through metal panels and doorjambs always use vinyl tubing and grommets for protection and a professional-looking installation.

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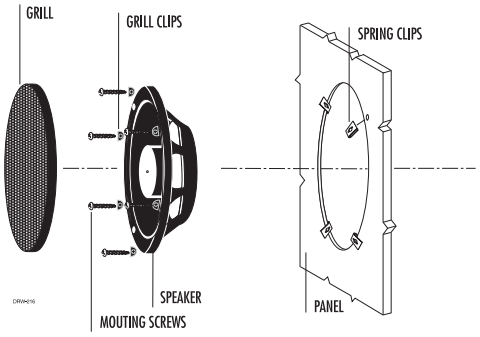
WOOFER INSTALLATION

1. Mark and cut a 7-5/8″ (186mm) hole for mounting the speaker.
2. Drill the holes for the mounting screws using a 1/8″ (3mm) drill bit.
3. Route the wiring harness through the mounting hole.
4. Install the spring clips over the holes if needed. Apply the rear mounting gasket to the speaker frame.
5. Attach the wires to the speaker and be sure to observe proper speaker polarity.
6. Place the woofer in the hole. Insert screws through grill clips and woofer mounting holes. Screw woofer into place using the six supplied mounting screws and grill clips.
7. Press the speaker grill firmly in place over the grill mounting clips.

FIGURE 1—WOOFER INSTALLATION



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WIRING CONNECTIONS

Input

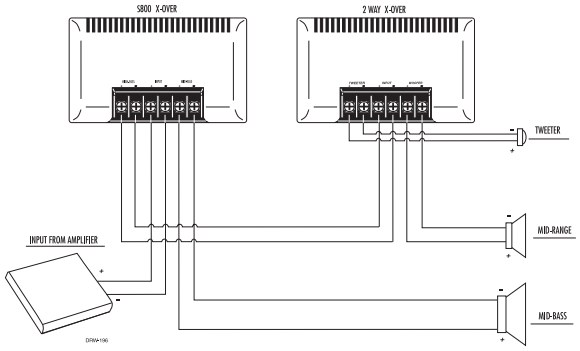
1. Connect the positive from one channel of the amplifier to positive input of s800 crossover. Connect the negative from the same channel of the amplifier to the negative input of the s800 crossover.

Output

1. Connect the positive terminal of the s800 midbass to the midbass positive terminal of the s800 crossover. Connect the negative terminal of the midbass to the midbass of the negative terminal of the crossover.
2. Connect the positive input on the two-way system crossover to the high-pass output positive on the s800 crossover. Connect the negative input on the two-way crossover to the light pass output negative on the s800 crossover.
3. Connect the tweeter and mid-range speaker to the two-way crossover as per instructions provided with the two-way system.
4. To use the s800 mid-bass component system with coaxial speakers, follow step 1 for input and output. Then connect the positive and negative wires from the coaxial speakers to the high-pass output terminals of the s800 crossover.

NOTE: The s800 system can be added to any two-way or coaxial system to make a true three-way system.

FIGURE 1—S800 CROSSOVER



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SPECIFICATIONS

Directed model s800

Frequency response	40 Hz - 2 kHz
Power handling RMS	75 watss
Power handling peak	150 watts
Impedance	3.256 ohms
Magnet weight	140.5 g
Vas	12.974 L
Fs	66.153 Hz
Qts	0.25
Efficiency (1W/1M)	93.488
Mounting Depth	2-5/16"
Mounting hole diameter	7-1/8"
Common Driver Specifications:	
Magnet type	Neodymium
Magnet diameter	1.5"
Voice coil forner	Kapton
Voice coil diameter	1-1/2"
Voice coil layers	4

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The company behind this system is Directed Electronics, Inc.
Since its inception, Directed has had one purpose, to provide customers with the finest vehicle security, car stereo products, rear seat entertainment, and accessories available. The recipient of more than 20 patents in the field of advanced electronic technology, Directed is ISO 9001 registered.

Directed® is committed to delivering world-class quality products and services that excite and delight our customers.

Directed is a proud member of

Quality Directed products are sold and serviced throughout North America and around the world

Call **800 274 0200** for more information about our products and services

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